

## California Arbovirus Surveillance Bulletin #34

Week 40 Friday, October 7, 2011



### WEEKLY UPDATE

#### **Human Cases**

Seventeen new human cases of West Nile virus (WNV) were reported this week from Butte (1), Contra Costa (1), Kern (3), Los Angeles (8), Orange (1), Sacramento (1), San Joaquin (1), and Stanislaus (1) counties. To date this year, 104 WNV cases have been reported from 19 counties; of the 104 cases, 72 (69%) developed neuroinvasive disease. The median age for all cases is 57 years (range: 14-86 years) and 63 (61%) are male. Four fatalities have been reported from Los Angeles (2) and Kern (2) counties. Additionally, 19 WNV-positive blood donors have been reported this year; 7 of the individuals subsequently developed symptoms and were reclassified as cases. At this time last year, 66 WNV cases had been reported from 12 counties.

**National Activity:** As of October 4, 2011, 432 human cases of WNV had been reported nationwide in 39 states and the District of Columbia: Alabama (1), Arizona (29), Arkansas (1), California (87), Colorado (2), Connecticut (8), Delaware (1), District of Columbia (1), Florida (18), Georgia (8), Idaho (1), Illinois (18), Indiana (7), Iowa (6), Kentucky (3), Louisiana (8), Maryland (16), Massachusetts (3), Michigan (23), Minnesota (1), Mississippi (46), Missouri (5), Montana (1), Nebraska (23), Nevada (13), New Jersey (4), New Mexico (2), New York (33), North Carolina (2), North Dakota (4), Ohio (16), Pennsylvania (4), Rhode Island (1), Tennessee (14), Texas (9), Vermont (1), Virginia (7), West Virginia (1), Wisconsin (1), and Wyoming (3). Of the 432 cases, 289 (67%) developed neuroinvasive disease. As of October 4, 2011, a total of 23 WNV-related fatalities had been reported in Arizona (2), Florida (2), Georgia (1), Illinois (2), Indiana (1), Michigan (2), Minnesota (1), Mississippi (4), Nevada (1), New York (2), Ohio (1), Pennsylvania (1), Tennessee (1), Texas (1), and Virginia (1).

#### **Horses**

No equine cases of WNV were reported this week. In 2011, 10 horses from 6 counties have tested positive for WNV, and one fatality has been reported. At this time last year, 18 cases of WNV had been reported among horses from 11 counties.

#### **Dead Birds & Squirrels**

Sixty-one WNV positive dead birds were reported this week from 15 counties: Contra Costa (2), Fresno (1), Glenn (1), Kings (1), Los Angeles (13), Merced (3), Orange (8), Placer (4), Riverside (1), Sacramento (7), San Bernardino (6), San Joaquin (3), Santa Clara (3), Stanislaus (5), and Yolo (3). In addition, twelve tree squirrels tested positive for WNV from Los Angeles (11) and Orange (1) counties; this is the first WNV positive tree squirrel reported from Orange County in 2011. To date this year, 587 dead birds from 25 counties and 15 tree squirrels from 4 counties have tested positive for WNV. An additional 112 birds have tested positive for chronic\* WNV infection from 26 counties. At this time last year, 385 birds from 26 counties, and 20 tree squirrels from 8 counties had tested positive for WNV.

*\*In 2010, The University of California, Center for Vectorborne Diseases (CVEC) and the California Department of Public Health, Vector-Borne Disease Section began differentiating between chronic and acute infections in WNV positive dead birds. Birds considered to have chronic infection with WNV are unlikely to have been infected recently with WNV and have limited surveillance utility.*

#### **Mosquito Pools**

Seventy-eight WNV positive mosquito pools were reported this week from the following 10 counties: Contra Costa (1), Fresno (5), Kern (16), Kings (2), Los Angeles (30), Orange (4), Riverside (5), Sacramento (2), Stanislaus (12), and Tulare (1). In 2011, 1,974 mosquito pools from 25 counties have tested positive for WNV.

At this time last year, 1,267 mosquito pools from 24 counties had tested positive for WNV.

#### **Sentinel Chickens**

Forty-four WNV seroconversions were reported this week from 23 flocks in the following 10 counties: Butte (5), Glenn (1), Kern (19), Los Angeles (4), Placer (3), Sacramento (2), Stanislaus (2), Sutter (3), Tulare (2), and Yuba (3). To date this year, 296 WNV positive chickens have been detected among 61 flocks in 15 counties.

At this time last year, 253 chickens (57 flocks) had tested positive for WNV from 20 counties.

**Website Information:** For updated information on WNV in California, please visit the California WNV website, [www.westnile.ca.gov](http://www.westnile.ca.gov), or the California Vectorborne Disease Surveillance System website, [www.calsurv.org](http://www.calsurv.org). For national information on WNV and other arboviruses, please visit the CDC website, [www.cdc.gov](http://www.cdc.gov), and the USGS website, [www.westnilemaps.usgs.gov](http://www.westnilemaps.usgs.gov).

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2010 & 2011 YTD West Nile Virus Comparisons		
	2010	2011
Total # Dead Bird Reports	9,562	8,708
# Positive Counties	35	32
# Human Cases	66	104
# Horse Cases	18	10
# Positive Dead Birds / # Tested	385 / 1,957	587 / 2,135
# Positive Mosquito Pools / # Tested	1,267 / 27,944	1,974 / 29,413
# Seroconversions / # Tested	253 / 22,540	296 / 18,846
# Positive Squirrels / # Tested	20 / 92	15 / 85

### YTD WNV Activity by Element and County, 2011

County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens	Squirrels
Butte	3			1	14	
Contra Costa	2		27	6		
El Dorado	1		1			
Fresno	5	5	15	121		
Glenn	1		2		5	
Imperial				3	3	
Inyo				2		
Kern	13	1	3	370	122	
Kings			5	63		
Lake			1	3		
Los Angeles	43	1	207	436	45	12
Madera	1		3	5		
Merced	1	1	8	11	6	
Nevada			1			
Orange	5		39	86		1
Placer	1	1	9	48	5	
Riverside	3		6	51	27	
Sacramento	1		120	378	5	1
San Bernardino	2		28	113	39	
San Diego				1		
San Joaquin	3		19	49		
Santa Barbara	1					
Santa Clara			25	15		1
Shasta				1		
Solano					1	
Stanislaus	9		18	95	7	
Sutter			1	26	7	
Tehama			1			
Tulare	8	1	39	82	6	
Ventura			1			
Yolo			7	7		
Yuba	1		1	1	4	
<b>Totals</b>	<b>104</b>	<b>10</b>	<b>587</b>	<b>1,974</b>	<b>296</b>	<b>15</b>

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## TESTING SUMMARIES

### Humans and Horses

		WNV		WEEV		SLEV	
		Local	Imported	Local	Imported	Local	Imported
Human Cases	Week	17	0	0	0	0	0
	YTD	104	0	0	0	0	0
Horse Cases	Week	0	0	0	0	0	0
	YTD	10	0	0	0	0	0

### Dead Birds & Squirrels

		Number Tested	WNV Positive (recent only)
Dead Birds	Week	127	61
	YTD	2,135	587
Tree Squirrels	Week	15	12
	YTD	85	15

### Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	864	44	0	0
	YTD	18,846	296	0	0
Mosquito Pools: RT-PCR	Week	1,088	72	0	0
	YTD	29,131	1,957	0	0
Mosquito Pools: RAMP	Week	7	6	N/A	N/A
	YTD	282	17	N/A	N/A

## NEW POSITIVES

### Humans

WNV Cases							
ID	Report Date	County	Age	Sex	Clin Pres	Onset Date	WNV Fatality?
11-0088	09/30/11	Orange	74	F	WNND	WEEK 37	NO
11-0089	09/30/11	Stanislaus	54	F	WNF	09/13/11	NO
11-0090	10/03/11	Kern	37	M	WNND	09/11/11	YES
11-0091	10/03/11	Kern	86	M	WNND	09/03/11	YES
11-0092	10/03/11	San Joaquin	45	M	WNND	08/26/11	NO
11-0093	10/04/11	Kern	75	F	WNF	n/a	NO
11-0094	10/05/11	Contra Costa	>18	M	WNND	09/19/11	NO
11-0095	10/06/11	Sacramento	78	F	WNND	09/19/11	NO
11-0096	10/06/11	Butte	>18	M	WNF	09/06/11	NO
11-0097	10/06/11	Los Angeles	57	M	WNF	07/31/11	NO
11-0098	10/06/11	Los Angeles	78	F	WNND	09/18/11	NO
11-0099	10/06/11	Los Angeles	56	M	WNND	n/a	YES
11-0100	10/06/11	Los Angeles	14	M	WNND	09/20/11	NO
11-0101	10/06/11	Los Angeles	58	M	WNND	09/14/11	YES
11-0102	10/06/11	Los Angeles	56	M	WNND	09/17/11	NO
11-0103	10/06/11	Los Angeles	50	F	WNND	09/11/11	NO
11-0104	10/06/11	Los Angeles	76	F	WNND	09/01/11	NO
Presumptive Viremic Blood Donors (Asymptomatic Infections)							
BD11-0012	10/05/11	Fresno	59	M			
BD11-0013	10/05/11	Fresno	30	F			
BD11-0014	10/06/11	Los Angeles	70	F			

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## Dead Birds

County	Agency	City	Zip	Species	Reported	Virus	Type of Infection	Method
Contra Costa	Contra Costa MVCD	Concord	94520	American Crow	10/1/2011	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Walnut Creek	94598	Western Scrub-Jay	9/30/2011	WNV	Recent	RAMP
Fresno	Consolidated MAD	Fresno	93710	Western Scrub-Jay	9/6/2011	WNV	Recent	RT-PCR
Glenn	Glenn Co MVCD	Orland	95963	House Finch	9/27/2011	WNV	Recent	RT-PCR
Kings	Kings MAD	Hanford	93230	American Crow	9/23/2011	WNV	Recent	RT-PCR
Los Angeles	Greater LA Co VCD - Sylmar	Canyon Country	91351	House Finch	9/28/2011	WNV	Recent	RT-PCR
Los Angeles	Greater LA Co VCD - Sylmar	Sherman Oaks	91403	American Crow	9/27/2011	WNV	Recent	RT-PCR
Los Angeles	Greater LA Co VCD - Sylmar	Van Nuys	91405	American Crow	9/20/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	Calabasas	91302	Cooper's Hawk	9/15/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	Culver City	90232	American Crow	9/20/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	Newhall	91321	American Crow	9/15/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	Santa Clarita	91351	American Crow	9/20/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	South Pasadena	91030	American Crow	9/16/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	Thousand Oaks	91362	Western Scrub-Jay	9/16/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	Winnetka	91306	American Crow	9/20/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	Woodland Hills	91367	American Crow	9/20/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	Los Angeles	90027	American Crow	9/22/2011	WNV	Chronic	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	West Los Angeles	90025	Red-tailed Hawk	9/16/2011	WNV	Chronic	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	Calabasas	91302	Fox Squirrel	9/22/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	Canoga Park	91303	Fox Squirrel	9/22/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	Encino	91316	Fox Squirrel	9/22/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	Pamona	90069	Fox Squirrel	9/22/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	Sherman Oaks	91403	Fox Squirrel	9/27/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	Studio City	91604	Fox Squirrel	9/26/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	West Hills	91307	Fox Squirrel	9/22/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	West Hills	91307	Fox Squirrel	9/22/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	West Hills	91307	Fox Squirrel	9/26/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	Woodland Hills	91367	Fox Squirrel	9/22/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	Woodland Hills	91367	Fox Squirrel	9/22/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co West VCD	Los Angeles	90045	American Crow	9/26/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co West VCD	Culver City	90232	American Crow	9/27/2011	WNV	Chronic	RT-PCR
Los Angeles	San Gabriel Valley MVCD	San Gabriel	91778	American Crow	9/21/2011	WNV	Recent	RT-PCR
Los Angeles	San Gabriel Valley MVCD	La Puente	91746	Common Raven	9/16/2011	WNV	Chronic	RT-PCR
Merced	Merced Co MAD	Merced	95341	American Crow	9/19/2011	WNV	Recent	RT-PCR
Merced	Merced Co MAD	Winton	95388	Western Scrub-Jay	9/19/2011	WNV	Recent	RT-PCR
Merced	Merced Co MAD	Winton	95388	Yellow-billed Magpie	9/26/2011	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Brea	92821	American Crow	9/27/2011	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Cypress	90630	American Crow	9/20/2011	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Cypress	90630	American Crow	9/27/2011	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Garden Grove	92841	American Crow	9/22/2011	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Garden Grove	92841	American Crow	9/27/2011	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Orange	92868	American Crow	9/22/2011	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Orange	92869	American Crow	9/27/2011	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Orange	92869	American Crow	9/27/2011	WNV	Recent	RT-PCR
Orange	Orange Co. VCD	Fullerton	92833	Fox Squirrel	10/5/2011	WNV	Recent	RT-PCR
Placer	Placer MVCD	Granite Bay	95746	Western Scrub-Jay	9/18/2011	WNV	Recent	RT-PCR
Placer	Placer MVCD	Lincoln	95648	American Crow	9/19/2011	WNV	Recent	RT-PCR
Placer	Placer MVCD	Roseville	95661	Western Scrub-Jay	9/15/2011	WNV	Recent	RT-PCR
Placer	Placer MVCD	Roseville	95661	Sparrow	9/21/2011	WNV	Recent	RT-PCR
Riverside	Riverside Co VCP	Moreno Valley	92551	Common Raven	9/19/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95610	Western Scrub-Jay	9/24/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	American Crow	9/25/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	American Crow	9/26/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	Western Scrub-Jay	9/26/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	Western Scrub-Jay	9/25/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95831	Western Scrub-Jay	9/22/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95827	Yellow-billed Magpie	9/22/2011	WNV	Recent	RT-PCR
San Bernardino	West Valley MVCD	Chino	91710	American Crow	9/19/2011	WNV	Recent	RT-PCR
San Bernardino	West Valley MVCD	Chino Hills	91709	American Crow	9/15/2011	WNV	Recent	RT-PCR
San Bernardino	West Valley MVCD	Chino Hills	91709	House Sparrow	9/19/2011	WNV	Recent	RT-PCR
San Bernardino	West Valley MVCD	Montclair	91763	American Crow	9/19/2011	WNV	Recent	RT-PCR
San Bernardino	West Valley MVCD	Montclair	91763	American Crow	9/19/2011	WNV	Recent	RT-PCR
San Bernardino	West Valley MVCD	Ontario	91761	American Crow	9/16/2011	WNV	Recent	RT-PCR
San Joaquin	San Joaquin Co MVCD	Lathrop	95330	American Crow	9/20/2011	WNV	Recent	RT-PCR
San Joaquin	San Joaquin Co MVCD	Lodi	95240	Western Scrub-Jay	9/22/2011	WNV	Recent	RT-PCR

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San Joaquin	San Joaquin Co MVCD	Tracy	95376	American Crow	9/21/2011	WNV	Recent	RT-PCR
San Joaquin	San Joaquin Co MVCD	Tracy	95376	American Crow	9/21/2011	WNV	Chronic	RT-PCR
San Mateo	San Mateo Co MAD	San Bruno	94066	American Crow	9/22/2011	WNV	Chronic	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95120	Western Scrub-Jay	9/22/2011	WNV	Recent	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95125	American Crow	9/27/2011	WNV	Recent	VecTest
Santa Clara	Santa Clara Co VCD	San Jose	95123	Common Raven	9/27/2011	WNV	Recent	VecTest
Stanislaus	East Side MAD	Modesto	95356	House Finch	9/27/2011	WNV	Recent	RT-PCR
Stanislaus	Turlock MAD	Denair	95316	Western Scrub-Jay	9/26/2011	WNV	Recent	RT-PCR
Stanislaus	Turlock MAD	Turlock	95380	American Crow	9/21/2011	WNV	Recent	RT-PCR
Stanislaus	Turlock MAD	Turlock	95380	Yellow-billed Magpie	9/21/2011	WNV	Recent	RT-PCR
Stanislaus	Turlock MAD	Modesto	95358	Northern Mockingbird	9/20/2011	WNV	Recent	RT-PCR
Yolo	Sacramento-Yolo MVCD	Davis	95618	American Crow	9/26/2011	WNV	Recent	RT-PCR
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	9/27/2011	WNV	Recent	RT-PCR
Yolo	Sacramento-Yolo MVCD	Woodland	95695	American Crow	9/22/2011	WNV	Recent	RT-PCR

### Mosquitoes

County	Site Code	Pool #	Species	# in Pool	City	Collected	Virus	Method
Contra Costa	CNTR3012	401	Cx. pipiens	23	Concord	10/3/2011	WNV	RTPCR
Fresno	CNSL1068	767	Cx. tarsalis	38	Fresno	10/4/2011	WNV	RTPCR
Fresno	CNSL1133	755	Cx. quinquefasciatus	50	Clovis	10/4/2011	WNV	RTPCR
Fresno	CNSL1133	760	Cx. quinquefasciatus	50	Clovis	10/4/2011	WNV	RTPCR
Fresno	CNSL1695	765	Cx. quinquefasciatus	50	Fresno	10/4/2011	WNV	RTPCR
Fresno	CNSL6189	473	Cx. quinquefasciatus	50	Laton	10/4/2011	WNV	RTPCR
Kern	KERN0115	2489	Cx. tarsalis	50	Bakersfield	9/23/2011	WNV	RTPCR
Kern	KERN0115	2522	Cx. tarsalis	50	Bakersfield	9/27/2011	WNV	RTPCR
Kern	KERN0115	2524	Cx. quinquefasciatus	50	Bakersfield	9/27/2011	WNV	RTPCR
Kern	KERN2020	2631	Cx. quinquefasciatus	50	Bakersfield	9/30/2011	WNV	RTPCR
Kern	KERN2021	2618	Cx. quinquefasciatus	28	Wasco	9/29/2011	WNV	RTPCR
Kern	KERN2022	2615	Cx. quinquefasciatus	50	Shafter	9/29/2011	WNV	RTPCR
Kern	KERN2024	2640	Cx. quinquefasciatus	50	Bakersfield	9/30/2011	WNV	RTPCR
Kern	KERN2031	2627	Cx. quinquefasciatus	50	Bakersfield	9/30/2011	WNV	RTPCR
Kern	KERN3015	2659	Cx. quinquefasciatus	27	Bakersfield	9/30/2011	WNV	RTPCR
Kern	KERN3026	2599	Cx. tarsalis	21	Arvin93203	9/29/2011	WNV	RTPCR
Kern	KERN3027	2501	Cx. quinquefasciatus	50	Arvin	9/27/2011	WNV	RTPCR
Kern	KERN3031	2513	Cx. tarsalis	41	Shafter	9/27/2011	WNV	RTPCR
Kern	KERN0043	2611	Cx. quinquefasciatus	50	Shafter	9/29/2011	WNV	RTPCR
Kern	KERN0046	2609	Cx. tarsalis	16	Wasco	9/29/2011	WNV	RTPCR
Kern	KERN0008	2502	Cx. tarsalis	18	Bakersfield	9/27/2011	WNV	RTPCR
Kern	KERN0092	2555	Cx. tarsalis	32	Bakersfield	9/28/2011	WNV	RTPCR
Kings	KNGS3069	826	Cx. pipiens	27	Hanford	9/30/2011	WNV	RTPCR
Kings	KNGS3069	827	Cx. tarsalis	25	Hanford	9/30/2011	WNV	RTPCR
Los Angeles	GRLA2078	1538	Cx. quinquefasciatus	50	Los Angeles	9/30/2011	WNV	RTPCR
Los Angeles	GRLA2082	1534	Cx. quinquefasciatus	46	Downey	9/30/2011	WNV	RTPCR
Los Angeles	GRLA2166	1498	Cx. quinquefasciatus	50	Montebello	9/28/2011	WNV	RTPCR
Los Angeles	GRLA2166	1500	Cx. quinquefasciatus	44	Montebello	9/28/2011	WNV	RTPCR
Los Angeles	GRLA2182	1496	Cx. quinquefasciatus	24	Pico Rivera	9/28/2011	WNV	RTPCR
Los Angeles	GRLA2194	1502	Cx. quinquefasciatus	50	South El Monte	9/28/2011	WNV	RTPCR
Los Angeles	GRLA2194	1503	Cx. quinquefasciatus	50	South El Monte	9/28/2011	WNV	RTPCR
Los Angeles	GRLA2249	1525	Cx. quinquefasciatus	50	Pico Rivera	9/30/2011	WNV	RTPCR
Los Angeles	GRLA2249	1527	Cx. quinquefasciatus	31	Pico Rivera	9/30/2011	WNV	RTPCR
Los Angeles	GRLA2277	1464	Cx. quinquefasciatus	18	Long Beach	9/22/2011	WNV	RTPCR
Los Angeles	GRLA2278	1514	Cx. quinquefasciatus	49	Long Beach	9/30/2011	WNV	RTPCR
Los Angeles	GRLA2438	6391	Cx. quinquefasciatus	40	Chatsworth	9/29/2011	WNV	RTPCR
Los Angeles	GRLA2520	6352	Cx. quinquefasciatus	41	Los Angeles	9/22/2011	WNV	RTPCR
Los Angeles	GRLA2615	6384	Cx. quinquefasciatus	31	Newhall	9/28/2011	WNV	RTPCR
Los Angeles	GRLA2625	6385	Cx. quinquefasciatus	50	Santa Clarita	9/28/2011	WNV	RTPCR
Los Angeles	GRLA2625	6386	Cx. quinquefasciatus	33	Santa Clarita	9/28/2011	WNV	RTPCR
Los Angeles	GRLA2655	6336	Cx. quinquefasciatus	50	Encino	9/22/2011	WNV	RTPCR
Los Angeles	GRLA2669	6395	Cx. quinquefasciatus	37	Granada Hills	9/29/2011	WNV	RTPCR
Los Angeles	GRLA2671	6394	Cx. quinquefasciatus	22	Granada Hills	9/29/2011	WNV	RTPCR
Los Angeles	GRLA2889	1513	Cx. quinquefasciatus	49	Lakewood	9/30/2011	WNV	RTPCR
Los Angeles	GRLA2938	6369	Cx. quinquefasciatus	40	Burbank	9/27/2011	WNV	RTPCR

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Los Angeles	GRLA2967	6392	Cx. quinquefasciatus	39	Chatsworth	9/29/2011	WNV	RTPCR
Los Angeles	GRLA2968	6378	Cx. quinquefasciatus	50	Santa Clarita	9/28/2011	WNV	RTPCR
Los Angeles	GRLA3046	1520	Cx. quinquefasciatus	50	Bellflower	9/30/2011	WNV	RTPCR
Los Angeles	GRLA3048	1522	Cx. quinquefasciatus	51	Pico Rivera	9/30/2011	WNV	RTPCR
Los Angeles	GRLA3048	1523	Cx. quinquefasciatus	51	Pico Rivera	9/30/2011	WNV	RTPCR
Los Angeles	GRLA3049	1488	Cx. quinquefasciatus	48	Downey	9/28/2011	WNV	RTPCR
Los Angeles	GRLA3049	1490	Cx. stigmatosoma	14	Downey	9/28/2011	WNV	RTPCR
Los Angeles	GRLA3119	6375	Cx. quinquefasciatus	20	Canyon Country	9/28/2011	WNV	RTPCR
Los Angeles	GRLA3128	6381	Cx. quinquefasciatus	49	Castaic	9/28/2011	WNV	RTPCR
Orange	ORCO0001	1271	Cx. quinquefasciatus	9	Irvine	9/29/2011	WNV	RTPCR
Orange	ORCO0033	1259	Cx. quinquefasciatus	36	Westminster	9/28/2011	WNV	RTPCR
Orange	ORCO0034	1278	Cx. quinquefasciatus	30	Brea	9/29/2011	WNV	RTPCR
Orange	ORCO0082	1263	Cx. quinquefasciatus	50	Cypress	9/29/2011	WNV	RTPCR
Riverside	COAV0200	2367	Cx. quinquefasciatus	50	Mecca	9/29/2011	WNV	RTPCR
Riverside	COAV0322	2361	Cx. quinquefasciatus	41	Cathedral City	9/29/2011	WNV	RTPCR
Riverside	COAV0046	2448	Cx. tarsalis	50	Mecca	9/27/2011	WNV	RTPCR
Riverside	COAV0005	2462	Cx. tarsalis	50	Mecca	9/27/2011	WNV	RTPCR
Riverside	RIVR0002	726	Cx. tarsalis	50	Nuevo	9/27/2011	WNV	RTPCR
Sacramento	SAYO203013	6147	Cx. pipiens	5	Antelope	9/29/2011	WNV	RTPCR
Sacramento	SAYO205003	6217	Cx. pipiens	9	Orangevale	10/4/2011	WNV	RTPCR
Stanislaus	EAST1004	11191	Cx. pipiens	50	Modesto	10/4/2011	WNV	RAMP
Stanislaus	EAST1004	11192	Cx. pipiens	50	Modesto	10/4/2011	WNV	RAMP
Stanislaus	EAST1025	11195	Cx. pipiens	50	Modesto	10/4/2011	WNV	RAMP
Stanislaus	EAST1025	11196	Cx. pipiens	50	Modesto	10/4/2011	WNV	RAMP
Stanislaus	EAST1025	11197	Cx. pipiens	18	Modesto	10/4/2011	WNV	RAMP
Stanislaus	EAST1075	11194	Cx. pipiens	50	Riverbank	10/4/2011	WNV	RAMP
Stanislaus	TRLK1104	956	Cx. tarsalis	11	Hughson	10/4/2011	WNV	RTPCR
Stanislaus	TRLK1104	957	Cx. pipiens	47	Hughson	10/4/2011	WNV	RTPCR
Stanislaus	TRLK0420	952	Cx. pipiens	50	Turlock	10/4/2011	WNV	RTPCR
Stanislaus	TRLK0702	937	Cx. pipiens	50	turlock	9/30/2011	WNV	RTPCR
Stanislaus	TRLK0703	936	Cx. pipiens	50	Turlock	9/30/2011	WNV	RTPCR
Stanislaus	TRLK0705	941	Cx. pipiens	50	Turlock	9/30/2011	WNV	RTPCR
Tulare	KNGS3017	836	Cx. pipiens	21	Waukena	9/30/2011	WNV	RTPCR

### Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04
Butte	BUCO0002	Oroville	9/26/2011	WNV	1114	1122		
Butte	BUCO0004	Gridley	9/26/2011	WNV	1144			
Butte	BUCO0005	Honcut	9/26/2011	WNV	1147	1152		
Glenn	GLEN9701	Willows	9/28/2011	WNV	1493			
Kern	KERN0101	Lost Hills	9/26/2011	WNV	1582	1584		
Kern	KERN0107	Arvin	9/26/2011	WNV	1651	1656		
Kern	KERN0112	Wasco	9/26/2011	WNV	1689			
Kern	KERN0113	Bakersfield	9/26/2011	WNV	1705			
Kern	KERN0114	Bakersfield	9/26/2011	WNV	1661	1698	1701	1702
Kern	KERN0115	Bakersfield	9/26/2011	WNV	1686			
Kern	KERN0117	Bakersfield	9/26/2011	WNV	1673	1675	1676	1692
Kern	KERN3028	Bakersfield	9/26/2011	WNV	1634	1635	1636	1637
Placer	PLCR0017	Sheridan	9/26/2011	WNV	2128	2130	2131	
Los Angeles	LACW1005	El Segundo	9/29/2011	WNV	1806	1808		
Los Angeles	LACW1007	Baldwin Hills	9/28/2011	WNV	1822			
Los Angeles	LACW1026	Beverly Hills	9/29/2011	WNV	1878			
Sacramento	SAYO233001	Elk Grove	9/26/2011	WNV	2352			
Sacramento	SAYO245019	Wilton	9/26/2011	WNV	2379			
Stanislaus	EAST1947	Modesto	9/28/2011	WNV	1475	1481		
Sutter	SUYA0014	Sutter	9/29/2011	WNV	3103	3106		
Sutter	SUYA0030	Live Oak	9/29/2011	WNV	3113			
Tulare	DLNO0021	Earlimart	9/29/2011	WNV	1436	1442		
Yuba	SUYA0007	Marysville	9/29/2011	WNV	3061	3064	3068	

## California Arbovirus Surveillance Bulletin #34

Week 40 Friday, October 7, 2011

### TEST PROTOCOLS

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#### **Humans:**

Specimens are tested by local laboratories with an IgM or IgG immunofluorescent assay (IFA) and/or an IgM enzyme immunoassay (EIA). Specimens with inconclusive results are forwarded to the California Department of Public Health Viral and Rickettsial Disease Laboratory (VRDL) for further testing or confirmation.

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#### **Horses:**

Serum or brain tissue specimens from horses displaying neurological symptoms are submitted to the California Animal Health and Safety Laboratory (CAHFS) and tested by EIA and PRNT.

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#### **Dead Birds and Tree Squirrels:**

Dead birds and tree squirrels are necropsied at CAHFS laboratory at University of California, Davis. Oral swabs from American Crows and kidney tissue from all other dead birds and squirrels are forwarded to the UC Davis Center for Vectorborne Diseases (CVEC) for West Nile virus testing using the singleplex RT-PCR Taqman assay and confirmed with a second primer set.

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#### **Sentinel Chickens:**

Dried blood spot specimens from sentinel chickens are submitted to the California Department of Public Health Vector-Borne Disease Laboratory and tested for the presence of antibodies to West Nile, western equine encephalomyelitis (WEEV), and St. Louis encephalitis (SLEV) viruses by EIA and IFA. Positive samples are confirmed by western-blot or PRNT.

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#### **Mosquito Pools:**

Mosquito pools are submitted to CVEC and screened for WEEV, SLEV, and WNV viral RNA using a Taqman multiplex RT-PCR. CVEC will cease confirmation testing on PCR-positive pools of *Cx. tarsalis* and *Cx. quinquefasciatus* but will continue to confirm multiplex PCR-positive results for other mosquito species using singleplex RT-PCR.

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